

**Service ID** S00243



**Location** Remote, Spain

## Lab gold-standard evaluation

### Provider service

University of Cordoba

### Link to content

<https://agrifoodtef.eu/services/lab-gold-standard-evaluation>

### Type of Sector

Food processing

### Accepted type of products

Software or AI model

### Type of service

AI model training, Performance evaluation

### Description

This service provides a lab-based evaluation for AI classification models, contrasting their results with a gold-standard analysis to assess accuracy and reliability. Focused on applications in food processing, such as beekeeping and pollen counting, this service ensures that AI models meet high standards of precision, which is essential for fields requiring validated data accuracy.

## **How can the service help you**

For developers in food processing industries, this service helps validate AI classification results, ensuring they align with trusted benchmarks. This is particularly valuable for applications like pollen analysis, where high accuracy is critical for reliable outputs and model validation.

## **How the service will be delivered**

Clients can request specific metrics for comparison and may provide specific datasets for the development of AI models or parameters for a more tailored evaluation process.

## **Service customisation**

The service includes comparative analysis using lab-generated gold-standard data. Outputs include a detailed evaluation report of AI classification accuracy. Clients should provide AI models prepared for testing through downloadable files, APIs, web interfaces, marketplaces, or containerised Docker solutions for seamless sharing and deployment.